BUREAU OF WATER

INTERBASIN TRANSFER OF WATER
CLASS I
PERMIT APPLICATION

Complete this application form by providing the information requested. When needed, attach a separate report or sheet and label according to the relevant item number on the application form. All entries should be neat and typed. Once completed, maintain a copy for your records and mail the original and one copy of the application, the maps from item (5), along with a signed letter of transmittal to:

South Carolina Department of Health and Environmental Control
Bureau of Water
2600 Bull Street
Columbia, S.C. 29201
Attention: Interbasin Transfer – Water Facilities Permitting

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1. General Information

Date_____

Applicant's name _____

Address _____

City _____Phone _____

State _____ Zip code_____

Engineer/Authorized Representative _____

Address _____

City _____ Phone _____

State _____ Zip code_____

2. Transfer Description

A. Losing basin(s)_____

B. Receiving basin(s)_____

C. Provide a narrative which describes the transfer and distribution of water in the system from source(s) to discharge(s). The narrative must include the names and basin location for all intakes, water treatment plants, and wastewater treatment plants in the system as well as those of any wholesale customers. The narrative should complement the data provided in the tables below, and together, the narrative and tables should provide a comprehensive picture of the proposed interbasin transfer.

3. Permit Duration and Volume

Based on engineering, economic, and financial considerations of the proposed project or upgrade of an existing transfer, provide below the requested duration of the permit and the maximum daily volume of water to be withdrawn from the river basin of origin over the duration of the permit. Permits are issued for twenty years, or if requested, a permit may be issued for a term of less than twenty years. Attach a statement of justification if the requested duration is greater than twenty years (no longer than 40 years).

A. Permit duration* (years) _____

B. Maximum daily volume (mgd) _____

4. Major Types of Water Use

Indicate the major water use(s):

☐ Public supply ☐ Golf Course irrigation

☐ Industrial ☐ Thermoelectric

☐ Agricultural irrigation ☐ Hydroelectric

☐ Other _____

5. Description and Location of Facilities

A. Provide the information requested in Tables A through D for

- All major existing water and wastewater facilities currently owned by you or owned by other systems purchasing water from you, and
- All new water and wastewater facilities associated with the proposed interbasin transfer.

Provide information concerning any future changes related to any existing facilities. For example, indicate if a facility will no longer be used.

B. Locate the facilities from item 5.A above on *original* 7.5 minute or 1:100,000 scale U.S. Geological Survey (USGS) topographic quadrangle maps. Other existing maps may be submitted to the Department in lieu of the USGS maps if requested by the applicant and approved by the Department. Each facility should be clearly referenced and lettered in black ink on the map. An original and one copy should be submitted with the application.

C. On the above maps, locate and outline your water and wastewater service area and the water and wastewater service areas of other systems purchasing water from you.

6. Existing Water Usage

A. For the most recent complete calendar year, list in Table 1 the monthly volume of water withdrawn, purchased, and treated from each *existing* facility in Tables A, B, and C, and the monthly discharge from each facility in Table D.

B. List the name and mailing address of each purchaser of water greater than or equal to one hundred thousand (100,000) gallons of water a day from your system.

Summarize your *total existing* water use within the following categories:

Water use	Percent of total usage	Total number of connections	Number of metered connections
Domestic			
Industrial			
Agricultural			
Other			
Unaccounted For Water			

7. Projected Water Usage

A. List in Table 2 the *estimated initial* (at the start of the requested permit term) monthly volume of water to be withdrawn, purchased, and treated from each *existing and proposed* facility in Table A, B and C and the estimated monthly discharge, from each facility in Table D.

B. List in Table 3 the *estimated ultimate* (by the end of the requested permit term) monthly volume of water to be withdrawn, purchased, and treated from each *existing and proposed* facility in Table A, B and C, and the estimated monthly discharge, from each facility in Table D.

C. Provide a detailed assessment of projected water usage for the duration of the requested permit. Include the data and methods used to forecast projected water use, information

on the rate of population growth, and the per capita water use in the geographic area to be served including recent historical and projected average day, maximum day and maximum hourly flow.

D. For any *future* water use to be associated with the proposed interbasin transfer, list the name and estimated average daily volume of the purchase of each proposed purchaser greater than or equal to one hundred thousand (100,000) gallons of water a day, on any day.

E. Estimate your *total projected* water use and number of connections within the following categories at the *end* of the requested permit term:

Type of Use	Percent of total Use	Total number of connections
Domestic		
Industrial		
Agricultural		
Other		

8. Water Conservation

A. For public supply systems, provide the following information, for both your system and any public water supply system purchasing water from you:
   1. Are water audits conducted to determine unaccounted-for-water and leakage in your water system? If so, explain how often the audits are conducted, and explain the various components of the audit. How much money is spent annually to conduct the water audit?
   2. Do you currently, or have you ever conducted a system-wide leak detection survey and repair program based on the results of the above-mentioned water audit? If so, provide an overview of the methods used in the program, results on reductions in leakage, and an annual cost to conduct the system-wide leak detection survey and repair program.
   3. List any other water conservation practices or programs which you have previously or currently utilize in your system. These could include inverted rates, and education programs.
   4. If any of the conservation methods mentioned above are not currently being utilized in your system, are these practices or programs planned to be utilized as part of the proposed interbasin transfer? If so, explain.

B. For industrial, agricultural, and "other" types of water use provide an overview of any types of processes, practices or programs currently utilized by you which conserve water. Include a description of any such programs, their effectiveness in conserving water, and the annual cost to conduct the programs.

9. Alternative Sources

Provide a *detailed* engineering and economic assessment on the feasibility of utilizing alternative sources of water, purchasing water, or combinations of surface and groundwater sources, other than the proposed interbasin transfer of water.

10. Financial Feasibility

A. Provide a detailed overview of the financing of the proposed project, including the type and source of financing, cost allocation among various participants, interest rate, period of financing, repayment schedule and/or debt retirement.

B. Provide a copy of any current and proposed water rates utilized in your system for each type of customer or use.

11. Project Schedule

Provide a detailed timetable of the proposed project including preliminary engineering, agency review and permitting, financing, final engineering design and construction, and projected date of operation. If the water treatment plant or wastewater treatment plant(s) are to be constructed in phases, provide a timetable of the estimated dates and volume of each phased increase.

Table A. *Surface Water Withdrawal/ Intake Sources*

Name of Intake	Facility Number [1]	Pumping Capacity (# Pumps / Capacity mgd) [2]	Owner

Table B. *Surface Water Treatment*

Plant Name	Facility Number [1]	Current Plant Capacity (mgd)	Maximum Plant Capacity (mgd) [3]	Owner

[1] Facility number from maps in Item 4.
[2] List the number of pumps by capacity: 3 pumps/10 mgd each, 1 pump/ 20 mgd, etc.
[3] Include this item if construction of the treatment plant is phased.

Table C. *Purchase Source*

Name of Purchase Source	Facility Number [1]	Maximum Capacity to Purchase [4]	Actual Point of Purchase [5]

Table D. *Wastewater Treatment and Discharge*

Plant Name & NPDES Permit Number	Facility Number [1]	Current Plant Capacity (mgd)	Maximum Plant Capacity (mgd) [3]	Owner

[1] Facility number from maps in Item 4.
[3] Include this item if construction of the treatment plant is phased.
[4] State whether maximum capacity to purchase is by contract, or due to a limitation in infrastructure.
[5] Location number associated with location of master meter from maps in Item 4.

Table 1. ***Current Monthly Water Usage or Discharge for Each Facility*** **Year _____**

	Facility Name and Number				
Month	Monthly water usage (withdrawn, treated or purchased) or discharge for each facility (mgd)				
Jan					
Feb					
March					
April					
May					
June					
July					
Aug					
Sept					
Oct					
Nov					
Dec					

Table 2. ***Initial Monthly Water Usage or Discharge for Each Facility*** **Year _____**

	Facility Name and Number				
Month	Monthly water usage (withdrawn, treated or purchased) or discharge for each facility (mgd)				
Jan					
Feb					
March					
April					
May					
June					
July					
Aug					
Sept					
Oct					
Nov					
Dec					

Table 3. ***Ultimate Monthly Water Usage or Discharge for Each Facility*** **Year _____**

	Facility Name and Number				
Month	Monthly water usage (withdrawn, treated or purchased) or discharge for each facility (mgd)				
Jan					
Feb					
March					
April					
May					
June					
July					
Aug					
Sept					
Oct					
Nov					
Dec					